abcam

Product datasheet

Anti-CD105 antibody [MJ7/18] ab81456

リコンビナント

1 References　画像数 3

製品の概要

製品名	Anti-CD105 antibody [MJ7/18]
製品の詳細	Rat monoclonal [MJ7/18] to CD105
由来種	Rat
アプリケーション	**適用あり:** IHC-Fr, IP, Flow Cyt, WB
種交差性	**交差種:** Mouse
免疫原	Tissue, cells or virus corresponding to Mouse CD105. Inflamed mouse skin
ポジティブ・コントロール	WB: Mouse lung and liver tissue lysates Flow Cyt: bEND.3
特記事項	This product was switched from a hybridoma to a recombinant production format on 27th October 2021. This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
精製度	Ion Exchange Chromatography
ポリ/モノ	モノクローナル
クローン名	MJ7/18
アイソタイプ	IgG2a

アプリケーション

The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab81456の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
IHC-Fr		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
Flow Cyt		1/10 - 1/20. **ab18450** - Rat monoclonal IgG2a, is suitable for use as an isotype control with this antibody. 1/10 - 1/20. Use 10ul of the suggested working dilution to label $1x10^6$ cells in 100ul.
WB		Use at an assay dependent concentration. Predicted molecular weight: 70 kDa.

ターゲット情報

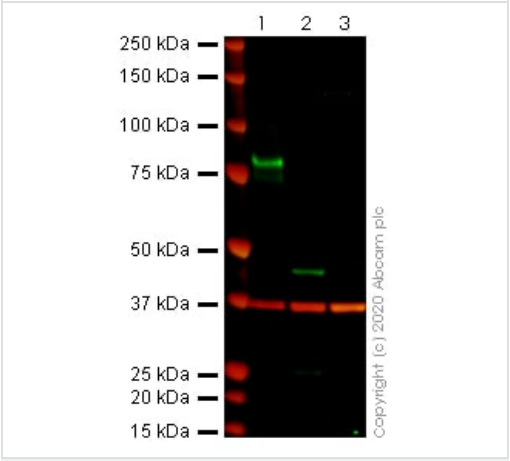
機能 Major glycoprotein of vascular endothelium. May play a critical role in the binding of endothelial cells to integrins and/or other RGD receptors.

組織特異性 Endoglin is restricted to endothelial cells in all tissues except bone marrow.

関連疾患 Defects in ENG are the cause of hereditary hemorrhagic telangiectasia type 1 (HHT1) [MIM:187300, 108010]; also known as Osler-Rendu-Weber syndrome 1 (ORW1). HHT1 is an autosomal dominant multisystemic vascular dysplasia, characterized by recurrent epistaxis, muco-cutaneous telangiectases, gastro-intestinal hemorrhage, and pulmonary (PAVM), cerebral (CAVM) and hepatic arteriovenous malformations; all secondary manifestations of the underlying vascular dysplasia. Although the first symptom of HHT1 in children is generally nose bleed, there is an important clinical heterogeneity.

細胞内局在 Membrane.

画像



Western blot - Anti-CD105 antibody [MJ7/18] (ab81456)

All lanes : Anti-CD105 antibody [MJ7/18] (ab81456) at 5 µg/ml

Lane 1 : Mouse Lung tissue lysate with 3% Milk
Lane 2 : Mouse Liver tissue lysate with 3% Milk
Lane 3 : NIH/3T3 whole cell lysate with 3% Milk

Lysates/proteins at 40 µg per lane.

Secondary
All lanes : Rabbit monoclonal [EPR16891] to GAPDH - Loading Control (**ab181602**)

Predicted band size: 70 kDa
Observed band size: 80 kDa

Lanes 1 - 3: Merged signal (red and green). Green - ab81456 observed at 80 kDa. Red - loading control **ab181602** (Rabbit Anti-GAPDH antibody [EPR16891]) observed at 37 kDa.

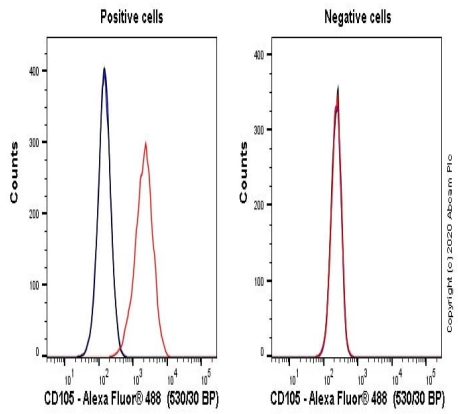
ab81456 was shown to react with CD105 in Western blot.

Membranes were blocked in 3% milk before incubation with ab81456 and **ab181602** (Rabbit Anti-GAPDH antibody [EPR16891]) overnight at 4 °C at 5 µg/ml and a 1 in 20000 dilution respectively.

Blots were incubated with Goat anti-Rat IgG H&L (IRDye® 800CW) preabsorbed (**ab253031**) and Goat anti-Rabbit IgG H&L (IRDye$®$ 680RD) preabsorbed (**ab216777**) secondary antibodies at 1 in 20000 dilution for 1 h at room temperature before imaging.

Additional band(s) were observed at 45 kDa, these band(s) may represent alternative splice variants. This has not been investigated further.

Lane 1: Mouse Lung tissue lysate (40 µg)
Lane 2: Mouse Liver tissue lysate (40 µg)
Lane 3: NIH/3T3 whole cell lysate (40 µg)



Flow Cytometry - Anti-CD105 antibody [MJ7/18] (ab81456)

Flow cytometry overlay histogram showing left bEND.3 positive cells and right negative NIH3T3 cells stained with ab81456 (red line). The cells were incubated in 1x PBS containing 10% normal goat serum to block non-specific protein-protein interaction followed by the antibody (ab81456) ($1x10^6$ in 100 µl at 1 µg/ml) for 30 min on ice.

The secondary antibody Goat anti-rat IgG H&L (Alexa Fluor® 488, pre-adsorbed) (**ab150165**) was used at 1/2000 for 30 min on ice.

Isotype control antibody (black line) was Rat IgG2aκ (**ab18450**) used at the same concentration and conditions as the primary antibody. Unlabelled sample (blue line) was also used as a control.

Acquisition of >5000 events were collected using a 50 mW Blue laser (488nm) and 530/30 bandpass filter.

Anti-CD105 antibody [MJ7/18] (ab81456)

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